INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41440

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : C07K 1/00 US CL : 530/350				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 530/350				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched UNIPROT; SWISSPROT; EST; ISSUED PATENTS				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
х	CARNINCI, P. ET AL. Medline Database, Direct	Submission, Accession No. Q9DJ7, 01	1, 5-6	
x	June 2001, see entire alignment. STRAUSBERB, R.L. ET AL. Medline Database, D Q8IYV9, 101 March 2003, see the entire alignment.	tirect Submission, Accession No.	1, 5-6	
	·			
j		·		
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents: "T" later document published after the international filing date or priori date and not in conflict with the application but cited to understand.			mational filing date or priority ation but cited to understand the	
"A" document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance		entlon		
"E" earlier ap	pplication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	red to involve an inventive step	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in th		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				
		Date of mailing of the international search report 1:9 AIIC 2005		
	(29.07.2005)	Authorized officer	211/2	
1	ailing address of the ISA/US il Stop PCT, Attn: ISA/US	Mount	110al	
Commissioner for Patents		Hope A. Robinson		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-1600		
Facsimile No. (703) 305-3230				

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41440

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. Remark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7 Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/41440

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING Group I, claim(s) 1-7, drawn to drawn to an isolated polypeptide.

Group II, claim(s) 8, drawn to an isolated nucleic acid.

Group III, claim(s) 9-11, drawn to an antibody.

Group IV, claim(s) 12, drawn to a method of contraception using an antibody.

Group V, claim(s) 13-19, drawn to a method of inhibiting Band 5 protein activity.

Group VI, claim(s) 20-22, drawn to a composition comprising an antibody.

Group VII, claim(s) 23, drawn to a composition comprising a nucleic acid.

Group VIII, claim(s) 24-29, drawn to a method of inhibiting Band 5 protein synthesis.

Group IX, claim(s) 30-41, drawn to a method of identifying a compound that regulates Band 5.

Group X, claim(s) 42, drawn to a method of diagnosing.

Group XI, claim(s) 43, drawn to a method of contraception.

The inventions listed as Groups I-XI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Because under PCT Rule 13.1 applicant is entitled to the first product, method of making and using same and the claimed invention is directed to three different products, protein, antibody and DNA. In addition, the methods as claimed are also directed to different products none of which uses or makes the first product. The DNA and protein share a technical feature, however, no special technical feature is present. Thus, the claimed invention lacks the same or corresponding technical feature.

Form PCT/ISA/210 (extra sheet) (January 2004)